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1 We claim:

- In a diaphragm for resisting lateral forces imposed on a building structure, an improved mechanical connection between a structural panel in said diaphragm and the framing members supporting said structural panel, said improved mechanical connection comprising:
 - a. said structural panel having a distal side, a proximal side, and a plurality of edge faces;
 - b. said plurality of framing members disposed in registration with said proximal side of said structural panel near said edge faces;
- c. a plurality of perimeter fasteners connecting said structural panel to said framing members; and
 - d. means for reducing bending of said perimeter fasteners attached to a substantial number of said perimeter fasteners, said means for reducing bending of said perimeter fasteners acting when said lateral forces are imposed on said building structure.
 - 2. The connection of claim 1, wherein:

said means for reducing bending of said perimeter fasteners consists of individual, substantially u-shaped clips having a central member and flanges extending from said central member, each of said u-shaped clips having said flanges pierced by one of said perimeter fasteners.

3. The connection of claim 1, wherein:

said means for reducing bending of said perimeter fasteners consists of a perimeter edging member, said perimeter edging member being pierced by substantially all of said perimeter fasteners, and said perimeter edging member being disposed near said edge faces of said structural panel.

- The connection of claim 3, wherein: said perimeter edging member is divided into a plurality of perimeter edging members, each being pierced by a plurality of said perimeter fasteners.
- The connection of claim 4, wherein:
 said perimeter edging members are formed as elongated members with first face members.

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1 6. The connection of claim 5, wherein:

said first face members are disposed between said proximal side of said structural panel and said framing members near said edge faces of said structural panel.

5 7. The connection of claim 5, wherein:

said first face members are disposed on said distal side of said structural panel near said edge faces of said structural panel.

8. The connection of claim 5, wherein:

said first face members are disposed within said structural panel near 10 said edge faces of said structural panel.

9. The connection of claim 5, wherein:

said perimeter edging members are disposed with said first face members disposed within said structural panel near said edge faces of said structural panel, and additional said perimeter edging members are further disposed within said structural panel near said edge faces of

- said structural panel.
 - 10. The connection of claim 5, wherein: said perimeter edging members are disposed with said first face members between said proximal side of said structural panel and said framing members, and additional said perimeter edging members are disposed with said first face members on said distal side of said structural panel near said edge faces of said structural panel.
- 11. The connection of claim 5, wherein: said perimeter edging members are disposed with said first face members disposed within said structural panel near said edge faces of 25 said structural panel, and additional said perimeter edging members are disposed with said first face members on said distal side of said structural panel near said edge faces of said structural panel.
 - 12. The connection of claim 5, wherein:
- said perimeter edging members are disposed with said first face 30 members disposed within said structural panel near said edge faces of said structural panel, and additional said perimeter edging members ar disposed with said first face members between said framing members and said distal side of said structural panel.

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- 1 13. The connection of claim 4, wherein: said perimeter edging members are formed as elongated, substantially u-shaped members, having central members with first flanges and
- second flanges extending from said central members.

 5 14. The connection of claim 13, wherein:
 said first flanges of said u-shaped member are disposed between said
 framing members and said proximal side of said structural panel, and
 said second flanges are disposed on said distal side of said structural
 panel near said edge faces.
- 10 15. The connection of claim 13, wherein: said first flanges of said u-shaped member are disposed within said structural panel near said edge faces, and said second flanges of said u-shaped members are disposed on said distal side of said structural panel near said edge faces.
- 15 16. The connection of claim 13, wherein:
 said first flanges of said u-shaped member are disposed between said
 framing members and said proximal side of said structural panel, and
 said second flanges are disposed within said structural panel.
 - 17. The connection of claim 13, wherein:
- said first flanges of said u-shaped member are disposed within said structural panel near said edge faces, and said second flanges are also disposed within said structural panel near said edge faces.
- 18. The connections of claims of 14, 15, 16 or 17 wherein:
 each of said perimeter fasteners protected from bending by one of said
 u-shaped members pierces both of said flanges of one of said u-shaped
 members.
 - 19. An improved structural panel to be used with perimeter fasteners and framing members to build a diaphragm, comprising:
- a structural panel having a distal side, a proximal side, and a plurality of edge faces, said structural panel being formed with means for reducing the bending of said perimeter fasteners, said means for reducing the bending of said perimeter fasteners being disposed near said edge faces of said structural panel.
- 20. A diaphragm for resisting lateral forces imposed on a building structur,35 said diaphragm comprising:

- a. a structural panel having a distal side, a proximal side, and a plurality of edge faces;
 - b. a plurality of framing members disposed in registration with said proximal side of said structural panel near said edge faces;
- c. a plurality of closely spaced perimeter fasteners connecting said structural panel to said framing members; and
 - d. means for reducing bending of said perimeter fasteners attached to a substantial number of said perimeter fasteners.
- 21. A vertically disposed diaphragm for resisting lateral forces imposed on a10 building structure, sitting on a foundation for said building structure, said diaphragm comprising:
 - a. a structural panel having a distal side, a proximal side, and a plurality of edge faces;
- b. a plurality of framing members disposed in registration with said proximal side of said structural panel near said edge faces, said framing members consisting of a first chord, a second chord, a top strut and a bottom strut, said first and second chords bypassing said bottom strut to sit on said foundation;
- c. a plurality of closely spaced perimeter fasteners connecting said
 structural panel to said framing members; and
 - d. means for reducing bending of said perimeter fasteners attached to a substantial number of said perimeter fasteners.
- 22. In a diaphragm for resisting lateral forces imposed on a building structure, an improved mechanical connection between a structural panel in
 25 said diaphragm and the frame supporting said structural panel, said improved mechanical connection comprising:
 - a. said structural panel having a distal side, a proximal side, and a plurality of edge faces;
- b. said frame disposed in registration with said proximal side of said
 structural panel near said edge faces;
 - c. a plurality of closely spaced perimeter fasteners connecting said structural panel to said frame; and
 - d. means for reducing bending of said perimeter fasteners attached to a substantial number of said perimeter fasteners, said means for reducing bending of said perimeter fasteners acting when said lateral forces are imposed on said building structure.

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